

Patent Examiner's Toolkit

EAST - [default.wsp:1]

File View Edit Tools Window Help

☒ L16: (6311) 2 same 11
☒ L17: (4075) 2 same 9
☒ L18: (922) 11 and 17
☒ L19: (505) 13 and 18
☒ L21: (47) 3 and 19
☒ L22: (8) 6 and 19
☒ L20: (50) (3 or 6) and 19

Failed
Saved
Favorites

Search

DBs: ☐ Plurals

Default operator: ☒ Highlight all hit terms initially

	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current XRef
23	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5980883 A	19991109	14	Polymer gel for medical use	424/78.17	424/78.08
24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5958406 A	19990928	42	Acne treatment with multifunctional enzyme	424/94.63	424/94.6; 435/226;
25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5888666 A	19990330	21	Secondary battery	429/62	429/145; 429/249
26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5883153 A	19990316	27	Fluoride ion sustained release preformed glass ionomer filler and dental	523/116	501/151; 523/117;
27	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	US 5876744 A	19990302	27	Highly bioadhesive and mucoadhesive compositions containing polyvinyl alcohol.	424/434	
28	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5853914 A	19981229	30	Rechargeable lithium battery having a specific pressure means comprising a	429/66	429/142; 429/186
29	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5824434 A	19981020	56	Secondary battery	429/209	429/214; 429/215
30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5797081 A	19980818	7	Method for rapid stiffening of extrudates	419/67	264/109; 264/148;
31	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	US 5770229 A	19980623	21	Medical polymer gel	424/488	514/944; 516/102;
32	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5733563 A	19980331		Albumin based hydrogel	424/422	424/423; 424/424;
33	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5688459 A	19971118		Process for preparing high water-containing elastomer medical catheter	264/233	264/300; 264/331.15

Start ☒ ☒ ☒ ☒ Clock: 6/17/02 ☒ Inbox Microsoft Outlook EAST - [default.wsp:1] 9:29 AM

Patent Examiner's Toolkit

EAST - [default.wsp:1]

File View Edit Tools Window Help

☒ L16: (6311) 2 same 11
☒ L17: (4075) 2 same 9
☒ L18: (922) 11 and 17
☒ L19: (505) 13 and 18
☒ L20: (50) (3 or 6) and 19
☒ L21: (47) 3 and 19
☒ L22: (8) 6 and 19
☐ Failed
☒ Saved
☐ Favorites

Search
 Qs: USPAT; US-PGPUB; EPO; JPO; DERWENT ☐ Plurals
 Default operator: OR ☒ Highlight all hit terms initially
 6 and 19

☒ BRS ☐ IS&R ☐ Image ☐ Text ☐ HTML

	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	R
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20020035401 A1	20020321	15	Osteogenic implants derived from bone	623/23.51	264/175; 264/211; 264/212.11	
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020028243 A1	20020307	69	Protein matrix materials, devices and methods of making and using thereof	424/484		
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6248268 B1	20010619	21	Process of making microparticles of a thermally-gelled polysaccharide	264/12	210/656	
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6177000 B1	20010123	5	Biosensor comprising a lipid membrane containing gated ion channels	205/780.5	204/403.06; 204/403.08; 204/403.09	
5	<input type="checkbox"/>	<input type="checkbox"/>	US 5876744 A	19990302	27	Highly bioadhesive and mucoadhesive compositions containing polyvinyl alcohol	424/434		
6	<input type="checkbox"/>	<input type="checkbox"/>	US 5662840 A	19970902	7	Process for making gel microbeads	264/12		
7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5192743 A	19930309	17	Reconstitutable lyophilized protein formulation	514/8	514/12; 514/2; 514/2.11	
8	<input type="checkbox"/>	<input type="checkbox"/>	US 4746551 A	19880524	6	Rehydratable polyacrylamide gels	204/456	427/385.5; 427/389.7; 427/389.5	

Start 6/17/02 Microsoft Outlook | EAST - [default.wsp:1]

3,859,169

Parent Examiner's Toolkit

EAST - [default.wsp:1]

File View Edit Tools Window Help

Search [] Browse Queue Clear

Qs: USPAT; US-PGPUB; EPO; JPO; DERWENT

Default operator: OR

Plurals ☐ Highlight all hit terms initially ☒

[3 or 6] and 19

BRS 1... IS&R... Image Text HTML

	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current XRef
33	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5688459 A	19971118		Process for preparing high water-containing elastomer medical catheter	264/233	264/300; 264/331.15
34	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5679371 A	19971021	8	Wound dressing	424/443	525/61
35	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5662840 A	19970902	7	Process for making gel microbeads	264/12	
36	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5660851 A	19970826	17	Ocular inserts	424/427	424/428; 528/271
37	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5658592 A	19970819	21	Medical crosslinked polymer gel of carboxylic polysaccharide and	424/488	514/944; 516/102
38	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5492741 A	19960220	34	Packaging material for photographic photosensitive materials and	428/35.2	428/213; 428/218;
39	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5407581 A	19950418	43	Filter medium having a limited surface negative charge for treating a blood	210/654	210/321.69; 210/508;
40	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5338490 A	19940816	15	Two-phase composites of ionically-conductive pressure-sensitive	252/500	424/448; 524/394;
41	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5276032 A	19940104	6	Vision aid and anesthetic composition	514/238.2	514/317; 514/535;
42	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	US 5192743 A	19930309	17	Reconstitutable lyophilized protein formulation	514/8	514/12; 514/2;
43	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4958626 A	19900925	10	Method for applying electromagnetic wave and ultrasonic wave therapies	601/3	607/154

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CLIPPEDIMAGE= DE004327923A1

PUB-NO: DE004327923A1

DOCUMENT-IDENTIFIER: DE 4327923 A1

TITLE: Polyvinyl alcohol gel, and process for the preparation thereof

PUBN-DATE: February 23, 1995

INVENTOR-INFORMATION:

NAME

COUNTRY

DING, WOLFGANG ADOLF

DE

VORLOP, KLAUS-DIETER PROF DR

DE

ASSIGNEE-INFORMATION:

NAME

COUNTRY

ARBO MEDIZIN TECHNOLOGIE GMBH

DE

APPL-NO: DE04327923

APPL-DATE: August 19, 1993

PRIORITY-DATA: DE04327923A (August 19, 1993)

INT-CL (IPC): C08L029/04; C08J003/02 ; C08K005/05 ; A61L015/44 ;
A61L015/22

; C12N011/04 ; A61K009/10

EUR-CL (EPC): A61K047/32; A61L015/24, A61L027/00 , C08F008/12 ,
C12N011/04

, C12N011/08

ABSTRACT:

A polyvinyl alcohol gel which has improved homogeneity and at least the same

strength as conventionally achieved by repeated freezing and thawing operations

can be prepared using a polyvinyl alcohol solution having a degree of hydrolysis of $\geq 99\%$ by weight, addition of 10-60% by weight of a nonaqueous,

dissolved additive containing OH and/or NH₂ groups and carrying out the gelling

at temperatures of ≥ -1 DEG C.

----- KWIC -----

DID:

DE 4327923 A1

DERWENT-ACC-NO: 1995-091726
DERWENT-WEEK: 199706
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TITLE: Prepn. of polyvinyl alcohol gel suitable for use in medicine -
by
gelling at specified temps. using an extensively hydrolysed PVA soln.
contg. an
additive with hydroxy or amine gps.

INVENTOR: DING, W A; VORLOP, K

PATENT-ASSIGNEE: ARBO MEDIZIN TECHNOLOGIE GMBH[ARBON]

PRIORITY-DATA: 1993DE-4327923 (August 19, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
DE 4327923 C2	January 9, 1997	N/A	004
C08L 029/04			
DE 4327923 A1	February 23, 1995	N/A	004
C08L 029/04			

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
DE 4327923C2	N/A	1993DE-4327923
August 19, 1993		
DE 4327923A1	N/A	1993DE-4327923
August 19, 1993		

INT-CL (IPC): A61K009/10; A61L015/22 ; A61L015/44 ; C08J003/02 ;
C08K005/05 ; C08K005/053 ; C08L029/04 ; C12N011/04

RELATED-ACC-NO: 1996-498271

ABSTRACTED-PUB-NO: DE 4327923A

BASIC-ABSTRACT: The prepn. of a gel of polyvinyl alcohol (PVA)
comprises (a)
using a PVA-soln. with degree of hydrolysis at least 99 wt.%; (b)
adding 10-60
wt.% of a non-aq. dissolved additive contg. OH or NH2 gps.; (c)
carrying out
the gelling at temps. of at least -1 deg.C avoiding the use of a
freezing
process.

The gelling is carried out in a mould, at room temp. The PVA soln. is
completely saponified before gelling. The process is carried out in
the
presence of glycerine, glycol or sucrose as an additive, esp. in an
amt. of
20-50 (esp. pref. 30-40) wt.%.

USE - The gels can be used e.g. in medicine as temporary replacement skin, cooling poultices, implants, coatings with an anaesthetic effect, cartilage replacement or as carrier for active ingredients. They can also be used for contact lenses.

ADVANTAGE - The gels have a stability comparable to the maximum stability of gels obtd. by repeated freezing and thawing processes. The addition of the OH - or NH₂ gp. contg. cpd. achieves this aim. The gels have better homogeneity than those prep'd. by freezing and controlled thawing and or thus of better transparency.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

PREPARATION POLYVINYL ALCOHOL GEL SUIT MEDICINE GEL SPECIFIED

TEMPERATURE

EXTEND HYDROLYSIS PVA SOLUTION CONTAIN ADDITIVE HYDROXY AMINE GROUP

DERWENT-CLASS: A14 A96 B07 D16 D22 P34

CPI-CODES: A10-E09B2; A12-V01; B04-C03B; B11-C04A; B12-M02C; B12-M03; B14-N03;

B14-N17B; D05-A01A; D09-C01A; D09-C01D; D09-C04A;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

H4 H401 H481 H7 H713 H721 H8 M210 M212 M281

M320 M423 M720 M903 M904 N153 N511 N512 P412 P922

Q120 R022 V743

Specific Compounds

21380P 21380Q

Chemical Indexing M6 *02*

Fragmentation Code

M903 P412 P922 Q120 R022 R112 R210 R220

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0113S; 0135S ; 0822S

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

017 ; P1707 P1694 D01 ; S9999 S1365 ; S9999 S1605*R ; S9999 S1616

S1605 ; S9999 S1456*R ; M9999 M2313 ; L9999 L2391 ; L9999 L2313

Polymer Index [1.2]

017 ; ND07 ; N9999 N6133 ; Q9999 Q8037 Q7987 ; Q9999 Q8015 Q7987

; Q9999 Q8048 Q7987 ; Q9999 Q8297 Q8286 Q8264 ; K9676*R ; K9483*R

; K9574 K9483 ; K9665 ; B9999 B4397 B4240 ; K9847*R K9790 ; B9999

B5209 B5185 B4740

Polymer Index [1.3]

017 ; F21 ; R01514 D00 D67 F21 H* O* 6A Na 1A ; A999 A704 A691

Polymer Index [1.4]
017 ; F07*R ; A999 A704 A691

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1995-041559
Non-CPI Secondary Accession Numbers: N1995-072528

L Number	Hits	Search Text	DB	Time stamp
1	1319	biocatalyst	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 08:32
2	93513	polyvinyl adj alcohol	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 08:33
3	84109	dehydration or dehydrating	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 08:33
4	67	biocatalyst and (polyvinyl adj alcohol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 08:33
5	2	((dehydration or dehydrating) and (biocatalyst and (polyvinyl adj alcohol)))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:00
6	3634	rehydration	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 08:51
7	2	((dehydration or dehydrating) and (biocatalyst and (polyvinyl adj alcohol)))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 08:51
8	2	DE-4327923-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:06
9	344841	gel or hydrogel	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:08
10	20292	(polyvinyl adj alcohol) and (gel or hydrogel)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:08
11	106064	polyethylene adj glycol	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:09
12	6890	((polyvinyl adj alcohol) and (gel or hydrogel)) and (polyethylene adj glycol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:09
13	1106765	enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:11
14	3492	((polyvinyl adj alcohol) and (gel or hydrogel)) and (polyethylene adj glycol) and (enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:11
15	499	((polyvinyl adj alcohol) and (gel or hydrogel)) and (polyethylene adj glycol) and (enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells) and ((dehydration or dehydrating) or rehydration)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:12

16	6311	(polyvinyl adj alcohol) same (polyethylene adj glycol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:12
17	4075	(polyvinyl adj alcohol) same (gel or hydrogel)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:12
18	922	(polyethylene adj glycol) and ((polyvinyl adj alcohol) same (gel or hydrogel))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:13
19	505	(enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells) and ((polyethylene adj glycol) and ((polyvinyl adj alcohol) same (gel or hydrogel)))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:13
20	50	((dehydration or dehydrating) or rehydration) and ((enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells) and ((polyethylene adj glycol) and ((polyvinyl adj alcohol) same (gel or hydrogel))))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:13
21	47	(dehydration or dehydrating) and ((enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells) and ((polyethylene adj glycol) and ((polyvinyl adj alcohol) same (gel or hydrogel))))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:13
22	8	rehydration and ((enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells) and ((polyethylene adj glycol) and ((polyvinyl adj alcohol) same (gel or hydrogel))))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:16

L Number	Hits	Search Text	DB	Time stamp
1	1319	biocatalyst	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 08:32
2	93513	polyvinyl adj alcohol	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 08:33
3	84109	dehydration or dehydrating	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 08:33
4	67	biocatalyst and (polyvinyl adj alcohol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 08:33
5	2	(dehydration or dehydrating) and (biocatalyst and (polyvinyl adj alcohol))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:00
6	3634	rehydration	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 08:51
7	2	(dehydration or dehydrating) and (biocatalyst and (polyvinyl adj alcohol))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 08:51
8	2	DE-4327923-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:06
9	344841	gel or hydrogel	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:08
10	20292	(polyvinyl adj alcohol) and (gel or hydrogel)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:08
11	106064	polyethylene adj glycol	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:09
12	6890	((polyvinyl adj alcohol) and (gel or hydrogel)) and (polyethylene adj glycol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:09
13	1106765	enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:11
14	3492	((polyvinyl adj alcohol) and (gel or hydrogel)) and (polyethylene adj glycol) and (enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:11
15	499	((polyvinyl adj alcohol) and (gel or hydrogel)) and (polyethylene adj glycol) and (enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells) and ((dehydration or dehydrating) or rehydration)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:12

16	6311	(polyvinyl adj alcohol) same (polyethylene adj glycol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:12
17	4075	(polyvinyl adj alcohol) same (gel or hydrogel)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:12
18	922	(polyethylene adj glycol) and ((polyvinyl adj alcohol) same (gel or hydrogel))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:13
19	505	(enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells) and ((polyethylene adj glycol) and ((polyvinyl adj alcohol) same (gel or hydrogel)))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:13
20	50	((dehydration or dehydrating) or rehydration) and ((enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells) and ((polyethylene adj glycol) and ((polyvinyl adj alcohol) same (gel or hydrogel))))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:13
21	47	(dehydration or dehydrating) and ((enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells) and ((polyethylene adj glycol) and ((polyvinyl adj alcohol) same (gel or hydrogel))))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:13
22	8	rehydration and ((enzyme or enzymes or microorganism or microorganisms or spore or spores or cell or cells) and ((polyethylene adj glycol) and ((polyvinyl adj alcohol) same (gel or hydrogel))))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/06/17 09:14